

The influence of ripple current on characteristics of electric arc, stable in a cylindrical plasmatron channel.

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Abstract

The paper presents the results of experimental studies of nonstationary electric arc, stable partitioned in a cylindrical plasmatron channel. The experimental data obtained in the range of electric current $I=50-200\text{A}$, $I_m=1-7\text{ A}$, when the gas flow rate $G=210-4\text{ kg s}^{-1}$, the frequency of alternating current $f=300-20000\text{Hz}$.

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